

**Amendment to the Specification:**

On page 1, line 2, please insert the following priority information:

This application is a continuation of U.S Application 09/552,170, filed on April 18, 2000, which is a continuation of U.S Application 09/266,982, filed on March 12, 1999, now US Patent 6,397,099, which is a continuation of the PCT Application PCT/US97/16309, filed on September 15, 1997, which is a continuation in part of U.S. Application Ser. No. 08/713,401, filed on September 13, 1996, now U.S. Patent 5,853,370, which is a continuation in part of PCT Application PCT/US96/00235, filed on January 2, 1996, and PCT Application PCT/US96/11630, filed July 12, 1996.

The invention provides proof in principle of the practicality for medical purposes of imaging body tissue, and in particular, neural tissue, especially the brain, using spectrophotometric techniques.